# **ARIZONA CRIMINAL JUSTICE COMMISSION**

# Primary Care Area Data on the Community Data Portal 2018



By: Matt Bileski, Applications Developer

## **INTRODUCTION**

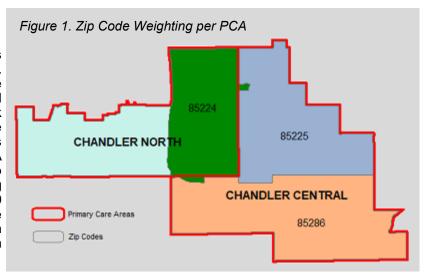
The Community Data Portal (CDP) on the Arizona Criminal Justice Commission (ACJC) website provides state legislators, stakeholders, and the general public with access to key indicators in the areas of public safety, delinquency, and youth prevention. One of the flagship projects of the ACJC is the Arizona Youth Survey (AYS), which monitors youth drug use, risk and protective factors, and other delinquency and victimization measures every two years. The Statistical Analysis Center (SAC) of the ACJC, in partnership with Arizona State University, administers the survey to more than 50,000 8th, 10th and 12th grade students across Arizona during each administration.

#### AYS PRIMARY CARE AREA DATA ON THE CDP

In conjunction with the AYS, the SAC maintains the CDP, which is the central access point for electronic AYS data used by schools, program administrators, and policymakers. The SAC makes every effort to keep AYS data on the CDP current and available at a community level. For these reasons, the SAC is providing AYS data in all 126 Primary Care Areas (PCAs) from across Arizona over several administrations of the survey. As defined by the Arizona Department of Health Services (ADHS), PCAs are geographic areas defined by the community's location of access to primary health care. The ADHS also takes into account U.S. Census blocks to define these boundary lines. The SAC collaborated with ADHS to access the defined PCA boundaries using the 2010 U.S. Census. The AYS data by PCA is made available on the CDP from the 2012 AYS administration to the 2016 administration. For more information on Arizona PCA profiles, please click here.

#### **METHOD OF PCA CONVERSION**

Each respondent to the AYS provides their zip code as a geographic identifier to acquire community-level data. Unfortunately, zip codes do not fall cleanly within the borders of PCAs. As a result, the SAC must weight all zip codes within a PCA based on U.S. Census block population estimates. According to the diagram (see Figure 1), each zip code that falls within a single PCA is weighted based on the percentage of the overall PCA population that resides within the zip code. Each zip code within a given PCA has a corresponding percentage that, when totaled together, makes up 100 percent of the PCA population. These percentages are used to calculate the AYS statistics per PCA. An example of the data weighting process for a PCA data calculation is provided below.



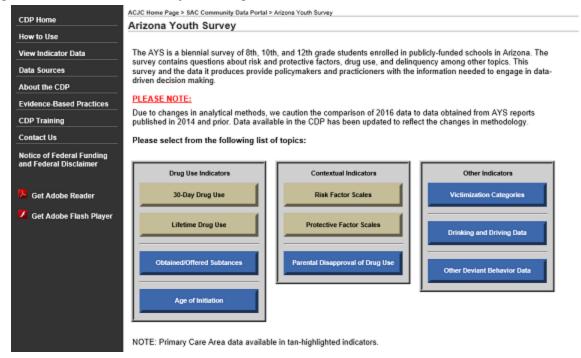
Referencing Figure 1, the Chandler Central PCA is made up of a total of three zip codes. The 85224 zip code falls within both the Chandler Central and Chandler North PCAs, and this zip code will be part of both PCA calculations. To understand how these zip codes within the Chandler Central PCA are weighted, SAC researchers first identified the total populations within each zip code (i.e., 85224, 85225 and 85286) based on corresponding Census blocks within the Chandler Central PCA. Next, the proportion, or percentage, of each zip code population (within the PCA) relative to the entire PCA population was calculated as the zip code weight:

Each response within the Chandler Central PCA is weighted based on this corresponding zip code percentage. This weighting approach is intended to reduce the impact of under- or over-representation of a single zip code within a given PCA. By leveraging Census population blocks along with the reported zip codes within PCAs, the SAC is able to provide PCA-level statistics with greater accuracy.

### **ACCESS TO THE PCA DATA**

To access the AYS page from the <u>CDP main page</u>, simply select the Arizona Youth Survey icon in the middle content area of the screen. From there, the user will be presented with the four PCA indicator categories that follow: 1) 30-day substance use, 2) lifetime substance use, 3) risk factors, and 4) protective factors. As seen in Figure 2, the user will select from any of these PCA indicator options (shaded in tan) to access the requested PCA data.

Figure 2. Arizona Youth Survey Main Page



When a category is selected, the user will be directed to the category data page. The page will have the same consistent features as any other CDP data page.

Once the user selects a substance, the page will prompt the user to identify a data level. There are now three options available to the user: 1) State & County Data, 2) State & PCA Data, and 3) State, County & PCA Data (see Figure 3). Select the desired data level, and follow the additional prompts to access the desired data.

Figure 3. Filtering Options on the Arizona Youth Survey Data Page

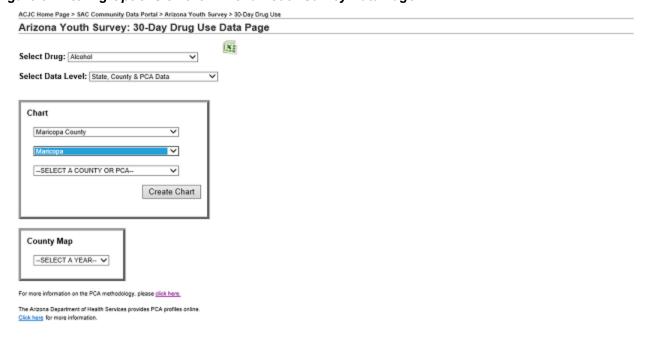
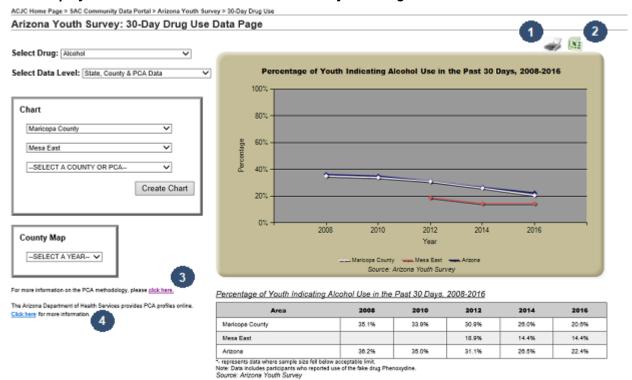


Figure 4 shows a successful query of the category page and highlights additional features available to the user. The following additional features are offered to users on every AYS data page:

- 1) Printable version of the data displayed on the data page
- 2) Excel download of full indicator data (includes PCA-level data)
- 3) Link to a PDF copy of this document
- 4) Link to the ADHS page outlining the 126 PCA profiles across Arizona.

Figure 4. Display of the Data on the Arizona Youth Survey Data Page



#### CONCLUSION

The ACJC will be providing periodic updates of PCA data on the Community Data Portal as new survey administration data becomes available. The PCA data from the AYS can provide a community-level understanding of public health and safety issues when used with PCA data available from the Arizona Department of Health Services. If you require additional indicator data for a specific PCA, please contact the Statistical Analysis Center at the ACJC by clicking here.

The Arizona Criminal Justice Commission would like to thank the Arizona Department of Health Services for providing Primary Care Area information necessary to create the Arizona Youth Survey data at the geographic level.

For questions and additional information, please contact Catie Clark, the Director of the Statistical Analysis Center of the Arizona Criminal Justice Commission, at <a href="mailto:clark@azcic.gov">clark@azcic.gov</a>.

